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TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTTORNEY'S DOCKET NUMBER GRA26 019US

COI	DESIGNATED/ELECTED NCERNING A SUBMISSIO		U.S. APRECIATION NO. HI KNOW, See 37 CFR 1.5)					
	ATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
	004/020345	24 June 2004 (24.06.2004)	24 June 2003 (24.06.2003)					
TITLE OF INVENTION METHOD FOR SPARSE NETWORK DEPLOYMENT ACCURACY ENHANCEMENTS								
APPLICA	APPLICANT(S) FOR DO/EO/US Joseph P. KENNEDY, Jr.; John Peter CARLSON and Martin ALLES							
Applican	t herewith submits to the United St	ates Designated/Elected Office (DO/EC	O/US) the following items and other information:					
1. 🗸	This is a FIRST submission of items co	ncerning a submission under 35 U.S.C. 371						
2.	This is a SECOND or SUBSEQUENT s	submission of items concerning a submission	n under 35 U.S.C. 371.					
3.	This is an express request to begin nati (5), (6), (9) and (21) indicated below.	ional examination procedures (35 U.S.C. 37	1(f)). The submission must include items					
4. 🗸	The US has been elected (Article 31).							
5.	A copy of the International Application	n as filed (35 U.S.C. 371(c)(2))						
	a. is attached hereto (required	only if not communicated by the Internation	nal Bureau).					
	b. has been communicated by	the International Bureau.						
_	c. Is not required, as the appli	cation was filed in the United States Receivi	ng Office (RO/US).					
6. ✓	An English language translation of the	e International Application as filed (35 U.S.C	3. 371(c)(2)).					
	a. is attached hereto.							
	b. has been previously submit	tted under 35 U.S.C. 154(d)(4).						
7.	Amendments to the claims of the Inte	mational Application under PCT Article 19 (35 U.S.C. 371(c)(3))					
	a. are attached hereto (requi	red only if not communicated by the Internat	ional Bureau).					
	b. have been communicated	by the International Bureau.						
		ever, the time limit for making such amendm	nents has NOT expired					
_	d. LY have not been made and v	will not be made.						
8.	An English language translation of the	e amendments to the claims under PCT Art	icle 19 (35 U.S.C. 371(c)(3)).					
9.	An oath or declaration of the inventor	(s) (35 U.S.C. 371(c)(4)).						
10	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	xamination Report under PCT					
Items	s 11 to 20 below concern document(s) or information included:						
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.						
12. 🔲	An assignment document for recording	g. A separate cover sheet in compliance wil	th 37 CFR 3.28 and 3.31 is included.					
13.	A preliminary amendment.							
14. 🗸	An Application Data Sheet under 37 (CFR 1.76.						
15. 🖵	A substitute specification.							
16.	A power of attorney and/or change of	address letter.						
17.	A computer-readable form of the sequ	uence listing in accordance with PCT Rule 1	3 <i>ter</i> .2 and 37 CFR 1.821- 1.825.					
18.	A second copy of the published Intern	national Application under 35 U.S.C. 154(d)(4).					
19.	A second copy of the English language	e translation of the international application	under 35 U.S.C. 154(d)(4).					
20. 🔽	Other items or information: Return	Receipt Postcard						

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

C20 Rec'd PET/PTO 1 4 NOV 2009 PTO-1390 (Rev. 02-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. APPLICATI	S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER				
40	40 / C C 4 0 4 PCT/US2004/020345		GRA26 019US				
The fold	The following fees have been submitted		CALCULATIONS	PTO USE ONLY			
21. A Basic national fee\$300			\$ 300.00				
If International pr PCT Article 33	ination fee reliminary examin (1)-(4)	\$ 100.00					
Search fee (37 Cl Internation International Sear	nal Searching Aut rch Report prepar	horityed and provided to	international application to	\$100 \$400	\$ 100.00		
	TOTAL OF 21, 2	\$ 500.00					
sequence list	ting or computer	program listing filed	n paper over 100 sheets (e. in an electronic medium). aper or fraction thereof.	xcluding			
Total Sheets	Extra Sheets		additional 50 or fraction to a whole number)	RATE			
- 100 =	/50 =			x \$250	\$		
Surcharge of \$130 claimed priority da			ition later than 30 months fr	om the earliest	\$		
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$		
Total claims	23	- 20 =	3	x \$ 50	\$ 150.00		
Independent claim	ns 8	- 3 =	5	x \$200	\$ 1000.00		
MULTIPLE DEPE	NDENT CLAIM(S	if applicable)		+ \$360	\$		
	<u></u> <u>`</u>		TOTAL OF ABOVE	CALCULATIONS =	\$ 1150.00		
Applicant clair	ms small entity st	atus. See 37 CFR 1	.27. Fees above are reduc	ed by 1/2.	<u> </u>		
		-		SUBTOTAL =	\$ 1650.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).							
			TOTAL	NATIONAL FEE =	\$ 1,650.00		
Fee for recording to by an appropriate		\$					
			TOTAL F	EES ENCLOSED =	\$ 1,650.00		
· <u>-</u>					Amount to be refunded:	\$	
					Amount to be charged:	\$	
a. A check	in the amount of	\$ 1,650.00	to cover the abo	ve fees is enclosed.			
	charge my Depos ate copy of this s		in the amount of \$	to co	ver the above fees.		
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit t Account No. 04-1679 . A duplicate copy of this sheet is enclosed.							
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not							
be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.) must be filed	
SEND ALL CORRI							
DUANE MORRIS LLP SIGNATURE							
		toie					
1667 K Street, N.W., Suite 700 Washington, D.C. 20006 Mark C. Common NAME					LUIS		
	02.776.7800			46,285			
Facsimile: 20	Facsimile: 202.776.7801 REGISTRATION NUMBER						

Office, U.S. DEPARTMENT OF COMMERCE

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1	RANSMITTAL LETTER	TO THE UNIT	ED STATES RECEIVING OFFICE 56 L			
Express Mail	mailing number:		Date of deposit: November 14, 2005			
File reference	no.: GRA26 019US	International	International application no. (if known): PCT/US2004/020345			
Title of the in	vention: METHOD FOR SPARSE	NETWORK DEPLOYME	NT ACCURACY ENHANCEMENTS			
Earliest priori	ty date claimed (Day/Month/Yea	ar): 24 June 2003 (2	24.06.2003)			
☐ This is	a new International Application	'n				
SCREENING	DISCLOSURE INFORMATI	ion:				
license for for			ation for purposes of determining whether a ther purposes, the following information is			
The inv	ention disclosed was not made in	n the United States of	America.			
There is	s no prior U.S. application relating	g to this invention.				
attached	lowing prior U.S. application(s) of international application. (NOT) (form PCT/RO/101) and this list	TE: priority to these a	which is related to the invention disclosed in the applications may or may not be claimed on the te a claim for priority.)			
application	no.	filed o	n			
application	no.	filed or	n			
	iate defense agencies under 35 U	ire the U.S. application	ONSIDERED TO ALTER the general nature of the n to have been made available for inspection by the R. 5.15.			
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Sheets of abst	tract: 1	Certified cop	Certified copy of priority document (specify):			
Sheets of drav	vings: 4	Other (specify				
Sheets of sequ	ience listing:	Applicatio	Application Data Sheet			
Sequence listi	ng diskette/CD:					
Tables related	to sequence listing CD:					
The person signing this	☐ Applicant		Mark C. Comtois			
form is:	Attorney/Agent (Reg. 46,285	No.) Name of pers	on signing			
I	40.200					

This collection of information is required by 37 CFR 1.10 and 1.412. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.